

Title (en)  
POWER SUPPLY DEVICE AND LOAD MONITOR

Title (de)  
NETZTEIL UND LASTMONITOR

Title (fr)  
DISPOSITIF D'ALIMENTATION ÉLECTRIQUE ET DISPOSITIF DE SURVEILLANCE DE CHARGE

Publication  
**EP 3531493 A4 20191016 (EN)**

Application  
**EP 17861233 A 20171017**

Priority  
• JP 2016204094 A 20161018  
• JP 2017037463 W 20171017

Abstract (en)  
[origin: EP3531493A1] [Problem] To make it easy to move the power supply device using a large capacity battery.[Solution] A power supply device 10 includes a carriage 20, an inverter 30, a battery 50 and a battery mounting portion 40. The carriage 20 has wheels. The inverter 30 is supported by the carriage 20. The battery 50 has a power output terminal at the lower part thereof. The battery mounting portion 40 has a power input terminal which is connected to the inverter 30 and contacts with the output terminal when the battery is mounted. The battery 50 can be mounted and detached by moving vertically.

IPC 8 full level  
**H01M 10/42** (2006.01); **H01M 10/44** (2006.01); **H01M 10/48** (2006.01); **H01M 10/613** (2014.01); **H01M 10/6551** (2014.01); **H01M 10/6563** (2014.01); **H02J 7/00** (2006.01); **H02J 9/06** (2006.01); **H01M 50/224** (2021.01); **H01M 50/271** (2021.01)

CPC (source: EP US)  
**G01R 19/15** (2013.01 - US); **H01M 10/425** (2013.01 - EP US); **H01M 10/48** (2013.01 - EP US); **H01M 10/486** (2013.01 - EP US); **H01M 10/613** (2015.04 - EP); **H01M 10/6563** (2015.04 - EP); **H01M 50/256** (2021.01 - EP); **H02J 7/0042** (2013.01 - EP); **H02J 7/0048** (2020.01 - US); **H02J 7/0063** (2013.01 - US); **H02J 9/06** (2013.01 - EP US); **H01M 50/224** (2021.01 - EP US); **H01M 50/271** (2021.01 - EP US); **H01M 2010/4278** (2013.01 - EP US); **H01M 2220/10** (2013.01 - US); **H02J 3/381** (2013.01 - US); **H02J 7/0063** (2013.01 - EP); **H02J 7/35** (2013.01 - EP US); **H02J 2300/26** (2020.01 - US); **Y02B 10/70** (2013.01 - EP); **Y02E 10/56** (2013.01 - EP)

Citation (search report)  
• [XY] US 2007019453 A1 20070125 - PIERCE GERALD [US]  
• [YA] US 2006216580 A1 20060928 - SCHLOSSER RUDIGER [DE]  
• See references of WO 2018074446A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3531493 A1 20190828**; **EP 3531493 A4 20191016**; **EP 3531493 B1 20230906**; **EP 3531493 C0 20230906**; CN 109923727 A 20190621; CN 109923727 B 20220916; JP 6955837 B2 20211027; JP WO2018074446 A1 20191010; US 11387514 B2 20220712; US 2020185670 A1 20200611; WO 2018074446 A1 20180426

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**EP 17861233 A 20171017**; CN 201780064599 A 20171017; JP 2017037463 W 20171017; JP 2018546343 A 20171017; US 201716342798 A 20171017